

1. (AMENDED) A method for controlling a hand-off of an MS (Mobile Station) for home zone service in a mobile network, wherein said MS is further registered to be used in the home zone service of a fixed network, comprising the steps of:

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(a) establishing a call connection between said MS and a BTS (Base Transceiver Station) providing the home zone service;

(b) requesting a BSC (Base Station Controller) to make the hand-off to a hand-off targeted BTS via said BTS;

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(c) determining whether said hand-off targeted BTS belongs to the home zone service and whether said MS is registered to be used only in the home zone service;

(d) performing the hand-off of said MS to said hand-off targeted BTS if said hand-off targeted BTS belongs to the home zone service;

(e) dropping said call connection if said hand-off targeted BTS does not belong to the home zone service and if said MS is registered to be used only in the home zone service; and,

(f) performing the hand-off of said MS to said hand-off targeted BTS if said hand-off targeted BTS does not belong to the home zone service and said MS is registered to be used both in the home zone service and a non-home zone service.

2. (AMENDED) The method as defined in Claim 1, wherein the step (a) of establishing said call connection further includes the steps of:

(g) causing said BSC to request the home zone information of said MS from a MSC (Mobile Switching Center) in response to a request to establish said call connection between said MS and said BTS;

- (h) causing said MSC to send the home zone information to said BSC; and,
- (i) storing the home zone information in said BSC.

3. (AMENDED) The method as defined in Claim 2, wherein the home zone information includes a home zone list having a plurality of BTSs providing the home zone service to said MS and a subscriber class information specifying whether said MS is registered to be used in the non-home zone service.

4. (AMENDED) The method as defined in Claim 2, wherein the step (h) of sending the home zone information from said MSC to said BSC is achieved through a call proceeding message.

8. (AMENDED) The method as defined in Claim 3, wherein the step (c) of determining whether said MS is registered to be used only in the home zone service is determined based on the subscriber class information of said MS.

9. (AMENDED) The method as defined in Claim 1, wherein the step (e) of dropping said call connection further includes the steps of sending a BTS acknowledging signal to said MS, sending a warning message to said MS, and causing said MS to output said warning message to inform the subscriber of said MS.

11. (AMENDED) A method for controlling a hand-off of a mobile station (MS) for home zone service in a mobile telecommunications system including a plurality of base transceiver stations (BTSs), a base station controller (BSC) for controlling said